



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Richard A. SCHUMACHER et al.

Serial No.: 10/715,819

Group Art Unit: Unassigned

Filed: November 19, 2003

Examiner: Unassigned

For: PHOSPHODIESTERASE 4 INHIBITORS

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§ 1.56, 1.97 and 1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This information disclosure statement is made in accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98 as follows:

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- ☐ within three months of the filing date of a national application other than a CPA under § 1.53(d);
 - ☐ within three months of the actual filing date of the national phase of a PCT application; OR
 - ☒ before the mailing of a first substantive office action (including after filing of an RCE).
- ☐ Under 37 C.F.R. § 1.97(c), this information disclosure statement is filed after the periods specified in 37 C.F.R. § 1.97(b), but before the mailing date of:
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 - ☐ termination of prosecution, e.g. Ex Parte Quayle, M.P.E.P § 609(B)(2); OR
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- ☐ Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application having a mailing date not more than three months prior to the filing date of this information disclosure statement; or
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Cited Materials

- ☐ Copies of materials listed but not attached were cited in benefit (35 U.S.C. § 120) ancestor application Serial No. _____, on Form 892 by the Examiner and/or Form 1449 by the applicant; see 37 C.F.R. § 1.98(d).
- ☐ Copies of materials listed but not attached were cited in an international search report dated _____.
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Non-English Language References

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Other Information

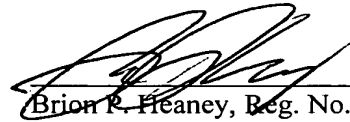
The instant application is related to copending patent applications Serial No. 10/051,309, filed January 22, 2002, Serial No. 10/361,634 filed February 11, 2003, Serial No. 10/754,600, filed January 12, 2004, Serial No. 10/662,833, filed July 21, 2003; and Serial No. 10/662,117, filed July 18, 2003. Enclosed are copies of documents cited in said related applications.

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Respectfully submitted,



Brian P. Heaney, Reg. No.; 32,542
Attorney/Agent for Applicants

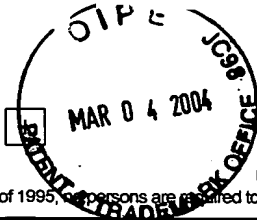
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Attorney Docket No.: MEMORY-35

Date: March 4, 2004

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 5

Complete if Known

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Filing Date	November 19, 2003
First Named Inventor	Richard A. SCHUMACHER et al
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Examiner Name	Unassigned
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U.S. PATENT DOCUMENTS						
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		Number	Kind Code ² (if known)			
		5,591,776		Cavalla et al.	01/07/1997	
		5,622,977		Warrellow et al.	04/22/1997	
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		6,297,264		Head et al.	10/02/2001	

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Sheet **2** of **5**

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	1	5,880,135			3/9/1999	
	2	6,262,040			7/17/2001	
	3	6,040,329			3/21/2000	
	4	5,889,014			3/30/1999	
	5	6,153,630			11/28/2000	
	6	2002151566			10/17/2002	

FOREIGN PATENT DOCUMENTS

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		FR	2729142	A1	Nadler et al.	07/12/1996		
		EP	1116711	A2	Chassot et al	07/18/2001		
		EP	0994100	A1	Shinji et al.	04/19/2000		
		WIPO	96/21435	A1	Cavalla et al	07/18/1996		
		WIPO	00/71129	A1	Hunt et al	11/30/2000		
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		JP	2001 11047			1/16/2001		
		WO	02 059110		PCT	8/1/2002		
		WO	97 00868		PCT	1/9/1997		1
		WO	98 09961		PCT	3/12/1998		2
		WO	97 49702		PCT	12/31/1997		3
		WO	00 69841		PCT	11/23/2000		
		WO	96 21435			7/18/1996		4, 5
		WO	02 074726			9/26/2002		6

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Sheet	3	of	5

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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		HEILMAN et al, "Synthesis and Antiinflammatory Evaluation of Substituted Isophthalonitriles, Trimesonitriles, Benzonitriles, and Terephthalonitriles", Journal of Medicinal Chemistry, 1978, Vol. 21, No. 9, pp. 906-913, XP-002226236	
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		VASU NAIR et al., "Novel, Stable Congeners of Antiretroviral Compound 2', 3'- Dideoxyadenosine," J. Am. Chem. Soc., 1989, pp. 8502-8504, Vol. 111	
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		Group Art Unit	Unassigned
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Sheet 4 of 5	Attorney Docket Number	MEMORY-35	

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		ROGER J. SCHILLING et al., "A High-Throughput Assay For Cyclic Nucleotide Phosphodiesterases," <u>Analytical Biochemistry</u> , 1994, pp.154-158, Vol. 215	
		DONALD V. DANIELS et al., "A Semiautomated Method for the Assay of Cyclic Adenosine 5'-Monophosphate Phosphodiesterase," <u>Analytical Biochemistry</u> , 1996, pp. 367-369, Vol. 236	
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		JAMES L. KELLEY et al., "6-(Alkylamino)-9-alkylpurines. A New Class of Potential Antipsychotic Agents," <u>J. Med. Chem.</u> , 1997, pp. 3207-3216, Vol. 40	
		HIROYUKI SAWANISHI et al., "Selective Inhibitors of Cyclic AMP-Specific Phosphodiesterase: Heterocycle-Condensed Purines," <u>J. Med. Chem.</u> , 1997, pp. 3248-3253, Vol. 40	
		J.E. SOUNNES et al., "Proposal for Pharmacologically Distinct Conformers of PDE4 Cyclic AMP Phosphodiesterases," <u>Cell Signal</u> , 1997, pp. 227-236. Vol. 9, No. 3-4	
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		Peng WANG et al., "Expression, Purification, and Characterization of Human cAMP-Specific Phosphodiesterase (PDE4) Subtypes A, B, C, and D," <u>Biochem. And Biophys. Research Comm.</u> , Vol. 234, 320-324 (1997).	

Examiner Signature	Date Considered
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		Domine M. T. CHAN et al., "New N- abd O-Arylations with Phenylboronic Acids and Cupric Acetate," Tetrahedron Letters, Vol. 39, 2933-2936 (1998).	
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		John HARTWIG et al., "Room-Temperature Palladium-Catalyzed Amination of Aryl Bromides and Chlorides and Extended Scope of Aromatic C-N Bond Formation with a Commercial Ligand," J. Org. Chem., 1999, Vol. 64, pp. 5575-5580.	
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		Han-Ting ZHANG et al., "Effects of Rolipram on Scopolamine-induced Impairment of Working and Reference Memory in the Radial-arm Maze tests in Rats," Psychopharmacology (Berl) 2000 June;150(3):pp. 311-6.	
		T.W. Greene et al., <u>Protective Groups in Organic Synthesis</u> , 3 rd Edition, Chapter 3, "Protection for Phenols and Catechols," pp. 246-292, John Wiley & Sons, 1999	
		Japanese Patent Abstract No. 7206789 dated 8/8/1995	

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